The Technique of Electrochemical Deposition of Cobalt-Tungsten Alloy and Its Properties

75669 SOV/80-32-10-18/51

deposit (65% co and 35% W) on a surface of identical composition. The investigated Co-W deposits showed a considerably higher resistance than cobalt and nickel to the corrosive action of 1:1 concentration of sulfuric, nitric, and hydrochloric acid as well as to NO₂ and SO₂. The deposit containing 35% W resisted well the corrosive action of 3% NaCl solution at room temperature, and it dissolved at a very low rate (0.1 g/m² per 24 hrs). There are 2 tables; 12 figures; and 6 references, 1 U.S., 1 British, 4 Soviet. The U.S. and British references are: J. Research Nat. Bur. Stand., Oct. (1947); The Engineer, 185, 4805 (1948).

SUBMITTED:

September 19, 1958

Card 3/3

87664

5.1310 1087, 1018, 1208

S/137/60/000/010/040/040 A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 10, p. 315,

AUTHORS:

Pedot'yev. N.P., Vyacheslavov, P.M., Kruglova, Ye.G., Andreyeva,

TITLE:

Electrochemical Deposition of Co-Tungsten Alloy and its Properties

PERIODICAL: Tr. Leningr. tekhnol. in-ta im. Lensoveta, 1959, No. 53, pp. 82-97

TEXT: It is shown that the composition of the Co-tungsten deposit depends to a high degree on the metal concentration ratio in the electrolyte, since a higher tungsten/cobalt ratio causes a higher tungsten content in the deposit, although current efficiency decreases. At a concentration of $(NH_{4})_{2}SO_{4}$ raised from 10 to 150 g/liter in the electrolyte, the tungsten content in the deposit increases from 7 to 26%. The current efficiency changes along the curve with a maximum at a concentration as high as 150 g/liter and furthermore drops. A higher D cathode increases the tungsten amount in the deposit; however, the quality of the deposit deteriorates; the luster disappears, and roughness appears. At a

Card 1/2

87664

S/137/60/000/010/040/040 A006/A001

Electrochemical Deposition of Co-Tungsten Alloy and its Properties

higher electrolyte temperature a gradual increase of the tungsten percentage in the alloy takes place. The current efficiency increases noticeably. It is established that the dispersing capacity of the electrolyte for the deposition of the cobalt-tungsten alloy exceeds by 10 - 15% that of the Ni-electrolyte. The authors studied the dependence of microhardness of the deposited cobalt-tungsten alloy on various factors of electrolysis. Investigations of the wear resistance of cobalt-tungsten alloy coatings in pair with Ni and in pair with the same alloy showed that it was higher in the latter case than during wearing in pair with Ni. It was stated that the cobalt-tungsten deposit was sufficiently corrosion-resistant in SO2 and NO2 atmosphere. The composition of the electrolyte for the deposition of an alloy with 35% tungsten is given.

N.I.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

Simultaneous discharge of zinc and hydrogen ions. Trudy LTI no.53:92-1072-259.

(Electrolysis)

FEDOT'YEV, N.P.; VYACHESLAVOV, P.M.; KRUGLOVA, Ye.G.; ANDREYEVA, G.P.

Electrolytic deposition of a cobalt-tungsten alloy and its properties. Trudy LTI no.53:82-97 '59. (MIRA 14:3) (Cobalt-tungsten alloys-Electrometallurgy) (Electrolysis)

Technology of ekectrolytic Sn-Cd deposition and its corrosion resistance in near tropical conditions. Trudy LTI no.53:72-81
'61. (MIRA 14:3)

(Tin plating) (Tin-cadium alloys)

(Corrosion-resistant materials)

FEDOT'YEV, N.P.; VYACHESIAVOV, P.M.; KRUGLOVA, Ye.G.; RUDNEVA, V.P.

Electrolytic deposition of tin-zinc alloys. Trudy LTI no.53:64-71 '59. (MIRA 14:3)

(Tin plating) (Tin-zinc alloys)

(Corrosion-resistant materials)

FELOT'YEV, N.P.; VYACHESLAVOV, F.M.; KAREL'SKAYA, V.F.; YUDILEVICH, S.R.

Measuring the porosity of chromium coatings by the embedding of mercury. Trudy LTI no.53:51-52 '59. (MIRA 14:3) (Chromium plating—Testing)(Porosity—Testing)

FEDOT'YEV, N.P.; VYACHESLAVOV, P.M.; BARDIN, V.V.

Effect of various factors on the deposition process and the properties of electrolytic chromium. Trudy LTI no.53:43-50
159. (Chromium plating) (Electrolysis)

(Chromium plating) (Electrolysis)

FEDOT'YEV, N.P.; ALESKOVSKIY, V.B.; VYACHESLAVOV, P.M.; VOLOKHONSKIY, N.V.;

ROMANOVA, D.L.

Microhardness and degree of surface purity of electrolytic cobalt. Trudy LTI no.53:37-42 '59. (MIRA 14:3) (Gobalt)

(Cobalt)

(Electrolysis)

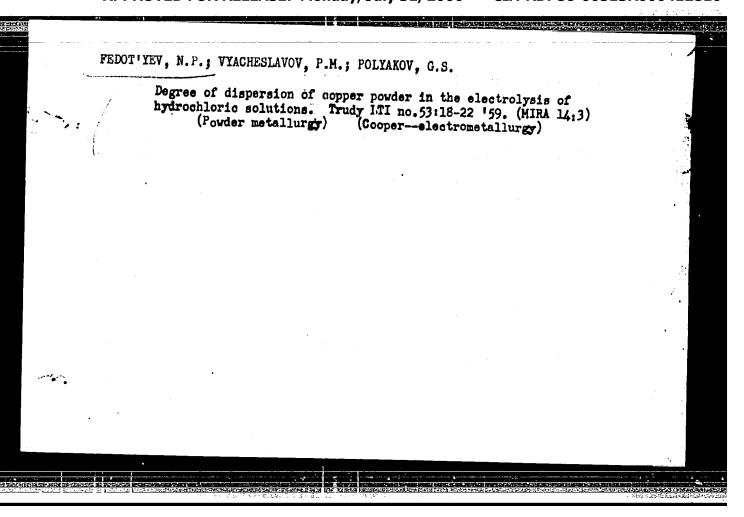
FEDOT'IEV, N.P.; VYACHESLAVOV, P.M.

Electrochemical deposition of nickel of increased hardness.
Trudy LTI no.53:30-36 '59. (MIRA 14:3)

(Nickel plating)

FEDOT'YEV, N.P.; VYACHESLAVOV, P.M.; GURVICH, O.M.

Microhardness of nickel coatings and its relation to surface microgeometry. Trudy LTI no.53:23-29 '59. (MIRA 14:3) (Nickel plating) (Hardness)



FEDOT'YEV, N.P.; VYACHESLAVOV, P.M.; ZHILINA, L.P.

Effect of various factors on the hardenss of copper deposited from a cyanide electrolyte. Trudy LTI no.53:13-17 '59.

(Gopper—Electronetallurgy)

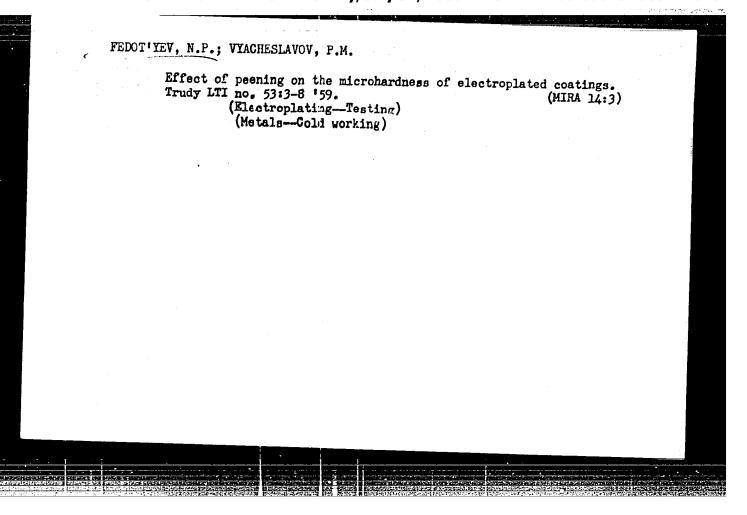
(Hardness)

Grain size and microhardness of electrolytic copper. Trudy LTI no.53:9-12 '59. (HIRA 14:3)

(Gc pper--Metallography)

(Copper--Electrometallurgy)

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000412810



5.4600

77641

SOV/80-33-2-16/52

AUTHORS:

Fedot'yev, N. P., Khonikevich, A. A.

TITLE:

Internal Stress in Electrolytic Deposits of Zinc

Obtained From Sulfate Electrolytes

PERIODICAL:

Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 2,

pp 355-362 (USSR)

ABSTRACT:

The authors studied effect of electrolysis conditions (current density, pH of the electrolyte, and concentration of additives) upon the properties of electrolytic precipitates of zinc (internal stress, microhardness, cathode potential, and cathodic yield based on current). The method for determining cathode sagging (which is the measure of internal stress) is shown in Fig. 1 (brass plates (brand L-67) of dimensions $75 \times 16 \times 1.1$ mm were used as cathodes). Internal stress, O was

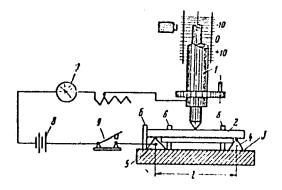
calculated by the formula:

Card 1/7

 $\frac{4}{3} \cdot \frac{\mathbf{E} \cdot (\mathbf{h} + \mathbf{t})^3 \cdot \mathbf{r}}{1 \cdot \mathbf{h} \cdot \mathbf{t}} \left(\frac{\mathbf{k} \mathbf{g}}{\mathbf{m}} \right)^2$

77641 SOV/80-33-2-16/52

Fig. 1. Schematic diagram for measuring cathode sagging. (1) optical indicator; (2) cathodic plate with the precipitate; (3) table; (4), (5) plate supports; (6) arresting devices; (7) milliampermeter; (8) batter: (9) switch.



Card 2/7

77641 **sov**/80-33-2-16/52

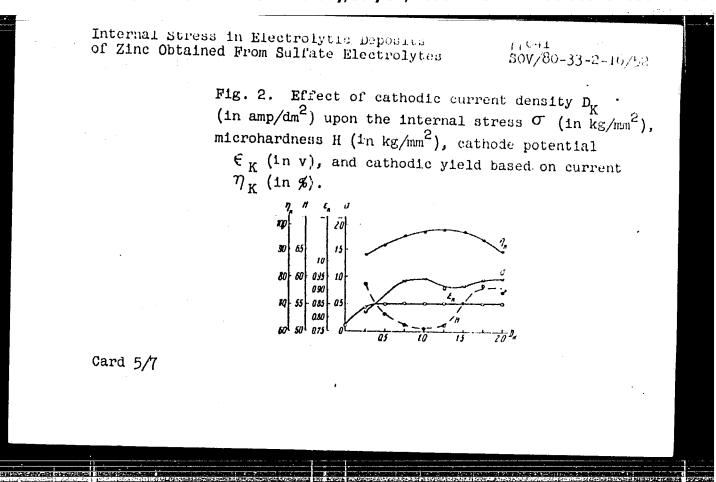
where f - depth of curvature of the cathode (in mm), h - thickness of the plate (in mm), t - thickness of the plating layer (in mm), 1 - base (in mm) - distance between the plate rests (4), (5) in Fig. 1). Microhardness was tested on the hardness gage (of the type PMT-3) of M. M. Krushchov and Ye. S. Berkovich /Microhardness Determined by the Depression Method (Mikrotverdost', opredelyayemaya metodom vdavlivaniya), AN SSSR (1943)7; satured calomel electrode was used as a standard in measurements of cathode potentials. Figures 2 and 3 show the effect of current density and of pH upon the properties and yield of zinc precipitate in the electrolyte of composition (in g/1): $ZnSo_4 \cdot 7H_20 - 240$, $A1_2(SO_4)_3 \cdot 18H_20 - 30$, $KA1(SO_4)_2$ · 12H₂0 - 50, Na₂SO₄ · 10H₂0 - 120 at room temperature and pH = 3.5. Thickness of the zinc precip1tate varied from 25 to 30 μ in all experiments. Current density interval $D_{K} = 0.75 - 1.25$ amp/dm² (and pH 3.5) which is the region of maximum cathodic yield and minimum microhardness, is most favorable for the metal deposition. With an increase in pH the magnitudes of all

Carl 3/7

77641 SOV/80-33-2-16/52

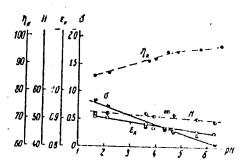
investigated quantities (H, \in K and σ), except the cathodic yield, decrease. Deposits of good appearance are obtained only in the pH interval of 3.5-4.3. Addition of colloidal or surface-active materials (dextrin, gelatin, glucose, glycerine, and α -nitroso- β -napthol) (at $D_K = 1 \text{ amp/dm}^2$ and pH = 3.6) increases cathode potential, internal stress, and microhardness of the deposits, while the cathodic yield based on current decreases slowly with increasing concentration of the additive. When phenol is used as an additive, the curves for H and σ have a maximum at the concentration of 5-7g/1. In all cases it was the compressive internal stress (tendency to expand) that appeared in compressed zinc deposits, rather than the tensile stress (tendency to compress) typical for deposits of other metals (chromium, nickel, copper, iron), in which the structural (change of crystalline form or of lattice parameters) or mechanical (loss of hydrogen) changes cause expansion of the deposit in the process of electrolysis. There are 10 figures; and 13 references, 12 Soviet, 1 U.K. The U.K. reference is: Barklie Davis, The Engineer, 150, 670 (1930).

Card 4/7



77041 80V/80-33-2-16/52

Fig. 3. Effect of pH of the electrolyte upon internal stress σ (in kg/mm²), microhardness H (in kg/mm²), cathodic yield based on current η_K (in %), and cathode potential ϵ_K (in v). (Cathodic current density $D_K = 1$ amp/dm²).



Card 6/7

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000412810

Internal Stress in Electrolytic Deposits of Zinc Obtained From Sulfate Electrolytes

77641 **SOV**/80-33-2-16/52

ASSOCIATION:

Leningrad Lensovet Technological Institute, Department of Electrochemistry (Leningradskiy tekhnologicheskiy institut imeni Lensoveta, kafedra elektrokhimii)

SUBMITTED:

May 14, 1959

Card 7/7

s/080/60/033/005/004/008

AUTHORS:

Fedot'yev, N.P., Grilikhes, S.Ya., Zil'berman, B.Ya.

TITLE:

Deep Anodizing of Aluminum at Room Temperature

PERIODICAL: Zhurnal prikladnov khimii, 1960, Vol 33, No 5, pp 1133 - 1141

Anodizing of aluminum in sulfuric acid at room temperature produces only thin films 10 - 15 μ thick. It is difficult to obtain films of 80 - 150 μ due to thermal processes taking place in the electrolysis. To obtain thick films, the current density must be increased and the H2SO4 concentration and the temperature of the electrolyte must be decreased. An increase in the current density causes heating of the solution, however.

According to Kosha-Shomodi [Ref 1] the dissolution rate of the film increases logarithmically with an increase in temperature. Deep anodizing, therefore, depends on the degree of heat removal from the reaction zone. The heat can be removed through the metal to be anodized or through the electrolyte. The first method has been developed by Tomashov [Ref 2]. It consists in cooling the part under treatment by a cooling solution in its interior. The second method consists in cooling and mixing the electrolyte, the temperature of

Card 1/2

s/080/60/033/005/004/008

Deep Anodizing of Aluminum at Room Temperature

which is reduced to -5°C. The mixing is carried out by compressed air. Kosha-Shomodi recommends the use of 10 a/dm² and an electrolyte temperature of 10°C in order to obtain thick films in 15%-H₂SO_{\hat{h}}. Intensive mixing of the electrolyte reduces the temperature of the ancde due to the removal of the Joule effect. The effect of the tension was investigated at 500, 435 and 400 w/dm². It was shown that a constant current intensity shows a lower Joule effect and consequently lesser heating of the anode than the corresponding average constant current density. The use of intensive mixing of the electrolyte and a constant current intensity facilitate the production of oxide films of considerable thickness at a temperature of the solution of up to 20°C. A low electrolyte temperature and low H₂SO_{\hat{h}} concentration further the production of films with increased hardness but also with increased brittleness. There are 8 graphs and 5 references: 4 Soviet and 1 English.

SUBMITTED: November 24, 1959

Card 2/2

Measurement of the adhesive strength of nickel coatings on aluminum and its alloys. Edur. prikl. khim. 33 no.8:1844-1849 Ag 160.

(Hickel) (Aluminum) (Aluminim alloys)

1530

2408

83976

\$/080/60/033/009/008/021 A003/A001

AUTHORS:

187300

Fedot'yev, N.P., Grilikhes, S.Ya., Foroponova, N.L.

TITLE:

Anode Processes in Electrochemical Polishing of Aluminum

PERIODICAL:

Zhurnal prikladnov khimii, 1960, Vol. 33, No. 9, pp. 2079-2084

Text: The change in the potential of an aluminum anode depending on the conditions of the electrolysis was studied. The experiments were made with samples of aluminum sheet of the AO (AO) grade with a thickness of 1 mm. Lead sheet served as cathode. The anode treatment of aluminum in a 10-30%-solution of sulfuric acid at a temperature of 16-22°C is accompanied by the formation of an oxide layer on its surface which is several tens of microns thick. A temperature increase leads to an increase in the dissolution rate of the film in the electrolyte. The anode treatment of aluminum in 85%-phosphoric acid at 70°C is accompanied by the formation of a whitish film consisting apparently of phosphates. In a mixture of sulfuric and phosphoric acids the periodical phenomena were observed within a narrower range and at lower current densities. The introduction of up to 4% of CrO3 into the electrolyte produces a film of high luster. The effect of the temperature was investigated on an electrolyte containing 45%

Card 1/2

83976 \$/080/60/033/009/008/021 A003/A001

Anode Processes in Electrochemical Polishing of Aluminum

H₂PO₄, 30% H₂SO₄, 4% CrO₃, 21% H₂O. It was shown that a temperature increase from 20 to 40°C leads to an increase in luster from 36 to 84%. The anode current density, if it surpasses a limit value, affects the reflecting power of the metal. There are 5 graphs and 7 references: 6 Soviet, 1 German.

SUBMITTED: February 22, 1960

Card 2/2

S/032/61/027/001/010/037 B017/B054

AUTHORS:

Fedot'yev, N. P. and Yampol'skiy, A. M.

TITLE:

Method of Determining the Cohesion of Galvanic Coats

PERIODICAL:

Zavodskaya laboratoriya, 1961, Vol. 27, No. 1, pp. 45-46

TEXT: The authors developed a method for the quantitative determination of the cohesion of galvanic coats by determining the force needed to separate a nickel coat from an aluminum surface. The galvanic coat does not separate simultaneously on the entire surface but only at the separating lines between the galvanic coat and the metal. Metal is galvanically deposited on an aluminum sheet. Part of the aluminum sheet is etched off with 20% HCl. An apparatus determines the weight needed to detach the galvanic coat from the sheet remaining after etching. The method is suited for determining the cohesion of nickel and copper coats on metals and alloys, in particular Al and Al alloys. There are 2 figures.

ASSOCIATION: Kirovskiy zavod (Kirov Plant)

Card 1/1

23422

S/061/61/00C/005/007/024 B110/B205

18 7400

1454,1087.1160

AUTHORS:

Fedotiyev, N. P., Tyacheslavov, P. H., Kruglova, Te. C.,

Fonteynes, Ye. A.

TITLE:

Technology of electrochemical deposition of an Sn-Cd alloy and its corrosion resistance under tropicalized conditions

PERIODICAL:

Referativnyy zhurnal. Khimlya, no. 5, 1961, 390-391, abstract 5K186 (5K186), ("Tr. Leningr. tekhnol. in-ta in.

Lensoveta", 1959, vyp. 53, 72-81)

TEXT: An electrolyte having the composition (g/1): $Cd(BF_4)_2 = 240-250$; $Sn(RF_4)_2 = 24-30$; $NH_4BF_4 = 50-60$; $HEF_4 = 50-70$; $H_3BO_3 = 18-20$; glue 0.5-1; $D_K = 1.5-2a/\delta m^2$, temperature 18-25°C, is recommended for use in depositing the alloy Cd-Sn (40-60% Sn). The effect of D_K and of the concentration of the constituents on the composition and quality of the deposit have been studied. Optimum corrosion resistance at 25-100% moieture and $20-60^{\circ}C$ was exhibited by an alloy with 40-60% Sn, which had been Card 1/2

Technology of electrochemical...

passivated in a solution of H₂SO₄ = 5-10 g/l and (NH₄)₂Cr₂O₇ = 150 g/l.

[Abstracter's note: Complete translation.]

Card 2/2

FEDOT'YEV, N.P.; HOTINYAN, A.L. "Electrolysis of sodium chloride solutions" by L.S.Genin. Reviewed by N.P.Fedot'ev, A.L.Rotinian. Zhur.prikl.khim. 34 no.7:1649-1650 Jl '61. (MIRA 14:7) (Sodium chloride) (Electrolysis) (Genin, L.S.)

FEDOT'YEV, N.P., prof.; IL'IN, V.A.; CHERNOZATONSKAYA, I.N.;
YAMPOL'SKIY, A.M., kand. tekhn., nauk, red.; SHILLING,
V.A., red.izd-va; GVIHTS, V.L., tekhn. red.

[Electrodeposition of silver from solutions of cyanidefree complex salts]Elektroosazhdenie serebra iz rastvorov netsianistykh kompleksnykh solei. Leningrad, 1962. 18 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Zashchitnye pokrytiia, no.8) (MIRA 16:3)

(Silver plating)

FEDOT YEV, N.P.

PHASE I BOOK EXPLOITATION

SOV/6308

Fedot'yev, N. P., Doctor of Chemical Sciences, Professor, N. N. Bibikov, P. M. Vyacheslavov, and S. Ya. Grilikhes

Elektroliticheskiye splavy (Electrolytic Alloys) Moscow, Mashgiz, 1962. 311 p. 12,500 copies printed.

Reviewer: A. F. Alabyshev, Doctor of Technical Sciences, Professor; Ed.: A. L. Rotinyan, Doctor of Technical Sciences, Professor; Eds. of Publishing House: T. L. Leykina and M. A. Chfas; Tech. Ed.: M. M. Peterson; Managing Ed. for Literature on Machine-Building Technology, Leningrad Department, Mashgiz: Ye. P. Naumov, Engineer.

PURPOSE: This book is intended for engineering personnel of plants, scientific research institutes, and design organizations. It may also be useful to students at schools of higher technical education.

Card 1/8-

	*
Electrolytic Alloys	sov/6308
COVERAGE: The book reviews the theory and practices protective, protective-decorative, antifriction, he and other special alloy coatings. Considerable at to Soviet work in the field of electrolytic deposit Experimental data obtained by the authors have be in compiling the present book. The authors thank Gribel' and G. P. Andreyeva for their assistance. follow each chapter.	tention is paid tion of alloys, en widely used Engineers V. I.
TABLE OF CONTENTS:	
Foreword	3
Ch. I. Structure and Properties of Alloys	5
 Basic structure of alloys Structure and properties of electrolytic alloys 	5 5 8

FEDOT'YEV, N.P., prof.; ALAHYSHEV, A.F.; ROTINYAN, A.L.; VYACHESLAVOV, P.M.; ZHIVOTINSKIY, P.B.; GAL'NBEK, A.A.; MORGACHEVSKIY, A.G., red.; ERLIKH, Ye.Ya., tekhn. red. . [Applied electrochemistry]Prikladnaia elektrokhimiia. Lenin-(MIRA 15:12) grad, Goskhimizdat, 1962. 638 p.
(Electrochemistry)

S/080/62/035/007/007/013 D214/D307

AUTHORS: Fedot'vev, N.P., Vyacheslavov, P.M. and Andreyeva,

G.P.

TITLE: Structure and properties of electrodeposited Sn-Cd

alloys

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 7, 1962,

1537-1542

The structure and some properties of electrodeposited Sn-Cd alloys were extermined and compared with those of the same alloys obtained by fusion. X-ray studies of 14 samples of the alloy, containing from 2.4 to 99% Cd, showed the lattice parameters to be close to the values obtained for the equivalent alloys prepared from melts. The Sn-Cd alloys, deposited from a KCN solution, crystallize in accordance with the phase diagram and contain Cd/Sn eutectics. Measurements of the potentials of the alloys in a lNCdSO4 solution against a standard calomel electrode also showed the alloys to behave as a eutectiferous mixture of Sn and Cd crystals. The micro-Card 1/2

Structure and properties ...

S/080/62/035/007/007/013 D214/D307

hardness increases linearly from 13.2 to 33.8 kg/mm² and the specific resistance decreases linearly from 0.154 to 0.114 Ω mm/m as the Cd content increases. The resistivities of the electrodeposited alloys were about 25% higher than those of the equivalent alloys prepared from their melts. An increase in the Cd content causes the cathodic polarization to increase; the polarization curves for the simulaneous deposition of both metals lie in the more positive region than that in which curves for the deposition of the separate components are situated. There are 5 figures and 1 table.

SUBMITTED:

September 22, 1961

Card 2/2

12677-6 ACCESSION NR: AP3000645 EWP(q)/EWI(m)/EUS AFFIC/ASD Zil'berman, B. Ya.; Fedot yev, N. P.; Grilikhes, S. Ya. in the treatment of aluminum TITLE: Heat belance of the anodic proce SOURCE: Zhurnal prikladnov khimii v. 36, no. 3, 1963, 557-565 TOPIC TAGS: anodizing of aluminum, oxide formation ABSTRACT: The process of formation of oxide films on the surface of aluminum during its anodic process is determined toy a large extent by its thermal processes which can be quantitatively appraised through the calculation of heat balance. The calculation of the heat balance of these processes is performed by the usual method which allows the use of standard equations needed for the calculation of magnitude. These equations can be obtained directly from the experiment by measuring the internal temperature of the anodic film. In cases where the internal cooling is absent during the process of aluminum anodizing, the heat dissipation is determined mainly by heat conductivity and convection. The discharge of heat is an internal process of the oxidized film and therefore the role of the diffusional phenomena in the dissipation of heat is small. The thick and hard oxide films can be obtained on the surface of aluminum only through the provision of a fairly high value of heat removal coefficient which is determined from the speed of electrolyte agitation. Card 1/2

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412810

ACCESSION N	R: AP3000645				1	
ture and con sity, the per must be take Romankov for	mposition of the consider	sample in the ration. "The the material	the size of a clectrolizer of the cuthors express used in this	other factors so bath and stirre: and the uniform as their gratity study." Orig.	r, current den- ity of mixing ude to <u>P.</u> G.	
ASSOCIATION				-		
SUBMITTED:	29Dec61	DAT	e Acq: 12Jun6	<i>5</i>	CT: 00	
SUB CODE:	CH	NO	REF SOV: 006	or	HER: 001	
						-
2/2				and an analysis of the second sec	i ayan dan da karan da karan Karan da karan da ka	. afi is d a • • a
Cord 2/2						

Structure and properties of the electrodeposits of winc-cadmium alloys, Zhur, prikl, khim. 36 no.3:572-578 My '63. (MIRA 16:5)

1. Kafedra elektrokhimii Leningradskogo tekhnologicheskogo instituta imeni Lensoveta.

(Zinc-cadmium alloys) (Electroplating)

Structure and properties of the electrodeposited sinc-tin alloy.

Zhur.prikl.khim. 36 no.31671-673 My 163. (MIRA 16:5)

(Zinc-tin alloys)

(Electroplating)

ANDREYEVA, G.P.; FEDOT'YEV, N.P.; VYACHESLAVOV, P.M.; PAL'MSKAYA, I.Ya.

Structure and physicochemical properties of electrolytic brass.

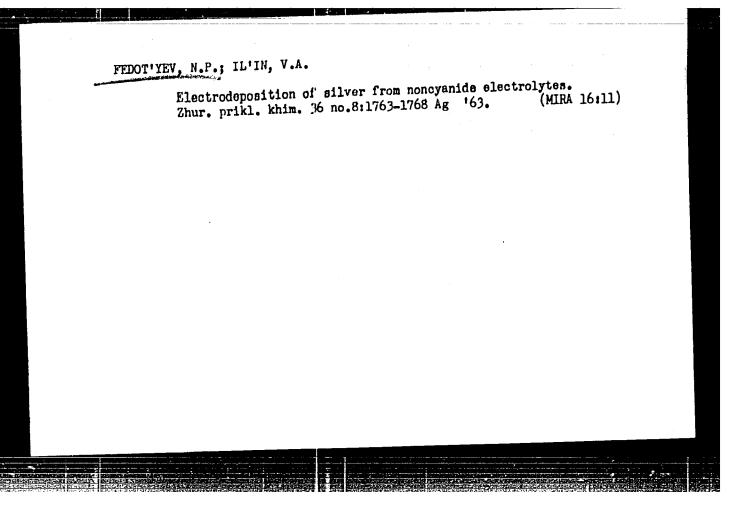
Zhur.prikl.khim. 36 no.6:1283-1290 Je '63. (MIRA 16:8)

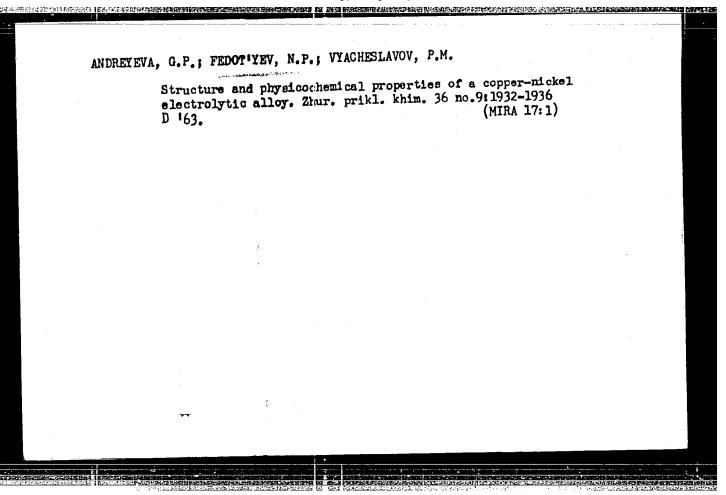
(Brass)

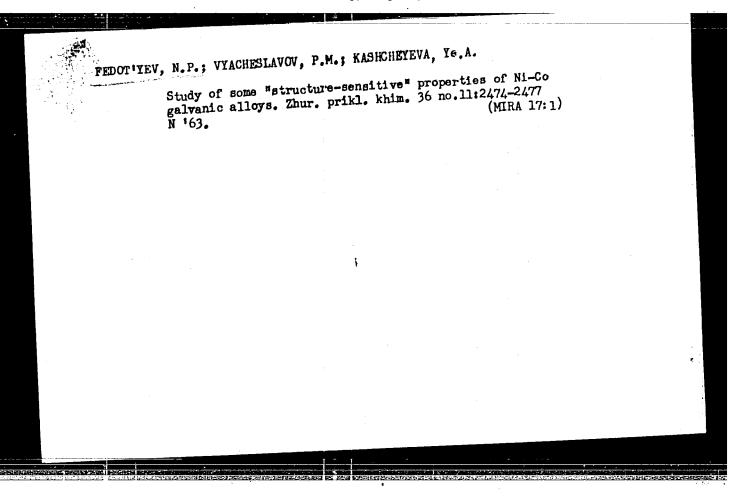
"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412810

	58-63 EPH/EPF(c)/EMP(ii)/EMT(ii)/BDS AFFTC/ASD/ESD-3 Ps-4/Pr-4	
WW/ J	/WH/LH/HM/K STON NR: AP3006179 8/0080/63/036/007/11/61/11/62	
AUTHO	TO TO TO THE REAL PROPERTY OF THE PARTY OF T	r.
TITL	E: Zhurnal prikladnoy khimii, v. 36, no. 7, 1963, 1461-1462	
SOUR	a record Plantroderosition, porpus electrolyte deposit, cobalt, collected	
	graphite, rading colloidal graphite (12 g/liter), porous cobalt deposits,	
tigh eval	uating porosity, involving pressing mercury in the PA-Separameters reduced that the pore volume of the cobalt deposits was 6.5%.	
	that the port volume of the cobait depositions of the lateral port surface approximately 1700 the total surface, and the area of the lateral port surface approximately 1700 as as great as the geometric surface of the sample. The method described as as great as the geometric surface of the sample. The method described ald be applicable to other metals as well. Orgi. avt. has: 1 table.	
Car	1/2	
A DESCRIPTION OF THE PROPERTY		,







Card 1/2

s/0080/64/037/007/1469/1477 AP4041796 ACCESSION NRI AUTHOR: Andreyeva, G. P.; Fedot 'yev, N. P.; Vyacheslavov, P. H. TITLE: Physicochemical properties and structure of Au-Cu electrolytic alloy SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 7, 1964, 1469-1477 TOPIC TAGS: gold copper alloy, electrolytic gold copper alloy, gold copper alloy electrodeposition, gold copper alloy structure, gold copper alloy property ABSTRACT: An experimental study of the properties of an electrolytically deposited Au-Cu alloy has shown that electrolysis in a cyanide electrolyte containing 5.5-0.2 g/L Au, 0.2-5.5 g/L Cu, and 5.5 g/L KCN at a temperature of approx 60C and a current density of 0.15 amp/dm3 produces in 1 hr satisfactory deposits 6-8u thick. The deposit consists of a solid solution with a crystal lattice of gold, The fresh deposits have a phase composition differing greatly from that of the Au-Cu metallurgical alloy. Depending on the gold content: and the current density it may have, instead of a single phase, two

ACCESSION NR: AP4041796

or even three phases, i.e., solid solutions of different composition, Au Cu3 and Au Cu intermetallic compounds, and very finely dispersed copper particles. However, as a result of natural or artificial aging, the phase structure of the alloy changes and becomes rather similar to that of the metallurgical Au-Cu alloy. The resistivity of electrodeposited alloys is roughly of the same magnitude and has the same composition dependence as those of metallurgical alloys. The microhardness of electrolytic alloys is much higher than that of metallurgical alloys, although in both types of alloys the composition dependence of microhardness follows the same pattern. Orig. art. has: 7 figures.

ASSOCIATION: none

SUBMITTED: 08Apr63

ATD PRESS: 3074

ENCL: 00

SUB CODE: MM

NO REF SOV: 006

OTHER: 002

Card 2/2

L 23514-65 EPR/EHT(m)/EHP(b)/EHP(t) Ps-4 IJP(c) JD ACCESSION NR: AP4047122 S/0080/64/037/010/2234/2239

AUTHOR: Fedot'yev. N. P.; Grilikhes, S. Ya.; Zil'berman, B. Ya.; Teplen'kiy, I. M.

TITLE: Thickness and dielectric strength of the oxide coatings on aluminum

SOURCE: Zhurnal prikladnoy khimil, v. 37, no. 10, 1964, 2234-2239

TOPIC TAGS: aluminum, anodizing, aluminum oxide coating, dielectric strength, coating thickness, porosity

ABSTRACT: The effects of heating conditions while anodizing aluminum on the thickness, weight, and dielectric strength of the coatings formed were investigated. The dielectric strength of 15-100 micron thick compact anodic coatings decreased exponentially with decreasing thickness and was practically independent of anodizing conditions. The dielectric strength is thicker coatings was determined by the properties of the air space in the porous layer of the film. When anodizing aluminum in H₂SO₄ sectrolyte at 10 and 20C the thickness of the oxide

Cord 1/2

L 23514-65 ACCESSION NR: AP4047122

coating, its weight and gate in weight, creased proportionally to the amount of the current passed through only if the solution were intensely agitated. A coating about 24 microns thick was formed on passing 1 am; hr./dm². The observed deviations from the linear relationships mentioned were caused by heat processes which increased the dissolution of the coating by the electrolyte, and in turn increased the porosity of the coating. The solution of the exide coatings was determined by the length of time the anode was in the electrolyte, and by the temperature of the electrolyte and of the surface of the coating, which was in turn determined by the current strength and the coefficient of the heat transfer. Orig. art, has: 3 figures and 1 table.

ASSOCIATION: None

SUBMITTED: 310ct62

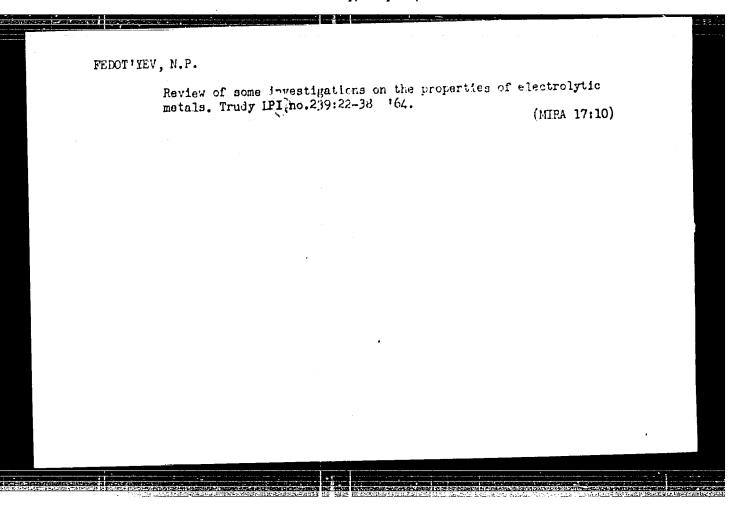
SUB CODE: MM

Ccro2/2

FINCL: 00

NO REF SOV: 008

OTHER: 000



FEDOT'YEV, Nikolay Pavlovich; Wiacheslavov, Fetr Nikhaylovich;
Birkar, Galina Konstantinovna; Ivakova, A.M., red.

[Technology of the deposition of an electrolytic milver-copper alloy] Tekhnologija osazhdenija elektroliticheskoge splava serebro-med.'. Jeningrad, 1964. 8 p.

(MIRA 18.2)

FEDOT'YEV, N.P.; VYACHESIAVOV, P.M.; GRIBEL', V.I.

Change in the hardness of electrolytic silver with time. Zhur. prikl. khim. 37 no.6:1372-1376 Je '64. (MIRA 18:3)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

ANDREYEVA, G.P.; FEDOT'YEV, N.P.; VYACHESLAVOV, P.M.

Physicochemical properties and structure of the Au-Cu electrolytic alloy. Zhur.prikl.khim. 37 no.7:1469-1477 J1 164.

(MIRA 18:4)

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP

CIA-RDP86-00513R000412810

EWT(m)/EPF(c)/EWP(1)/EWA(d)/EPR/EWP(t)/EWP(t) IJP(c) L 55977-65 UR/0080/65/038/004/0834/0839 JD/WB ACCESSION NR: AP5011814 621.357+546.621 AUTHOR: Fedot'yev, N. P.; Grilikhes, S. Ya.; Berkman, Ye. A.; Zil'berman, B. Ya. TITLE: Formation of passive oxide films during electropolishing of aluminum Zhurnal prikladnoy khimii, v. 38, no. 4, 1965, 834-839 SOURCE: TOPIC TAGS: aluminum, electrolytic polishing, electric double layer ABSTRACT: Electropolishing of A00 aluminum was carried out in an electrolyte containing (in wt. %): H₃PO₄, 45; H₂SO₄, 35; CrO₃, 4; H₂O, 16. The state of the aluminum surface after the anodic treatment was studied by measuring the impedance characteristics (capacity of the electric double layer, transition resistance at the metal-solution interface), the thickness of the barrier layer, and the reflectivity as a function of the conditions of electrolysis. It was found that the electropolishing process in acid and also in alkaline electrolytes (15% Na₃PO₄ and 25% Na₂CO₃) involves the formation on the metal surface of a passivating film consisting of a barrier layer and outer porous layer. A considerable increase in the reflectivity of the metal occurs at the viry start of the electrolysis, when the barrier

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000412810

ACCESSION MR: AP5011814 layer, which protects the metal from electropolishing process is associat the transition resistance, which cha barrier layer. The conditions of el that they affect the process of form anode. Orig. art. has: 5 figures a	riges symbatically with the electrolysis affect the police of the thin passivat	thickness of the	
ASSOCIATION: none SUBMITTED: 27Apr63	ENCL: 00	SUB CODE: MM	
NO REF SOV: 011	OTER: 005		5 .

GNUSIN, N.P.; KOVARSKIY, N.Ya.; FEDOTIYEV, N.P.

Roughness and polarization curves in the electrodeposition of copper from acid sulfate solutions. Zhur.prikl.khim. 38 no.11:2464-2469 N *65. (MIRA 18:12)

1. Submitted December 4, 1964.

GRIBEL', V.I.; FEDOT'YEV, N.P.; VYACHESLAVOV, P.M.

Change of the mechanical properties of electrolytic copper over a period of time. Elektrokhimia 1 no.3:364-365 Mr ¹⁶⁵.

(MIRA 18:12)

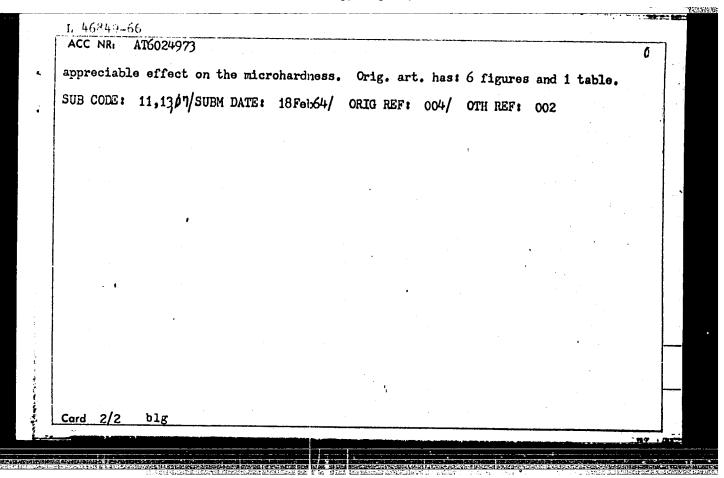
1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412810

January Name (+) /EMI JP(c) DS/JD/WW/JG/GD/WH	
L 46849-66 EWT(m)/EWP(e)/T/EWP(t)/ETI IJP(c) DS/JD/WW/JG/GD/WA SOURCE CODE: UR/0000/65/000/000/0194/0197	
JOS NO IMPORTANT	
ALL I	
AUTHOR: Andreyeva, G. P.; Fedot'yev, N. P.; Vyacheslavov, P. M.	
MOTHOR: MICHOGORA STATEMENT OF THE STATE	
ORG: none	-
TITLE: Electrodeposition and properties of silver-palladium alloys	۱
SOUNCE: AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimii. Zashchitnyye metallicheskiye i oksidnyye pokrytiya, korroziya metallov i issledovaniya v oblasti elektrocheskiye i oksidnyye pokrytiya, korroziya metallov i issledovaniya v oblasti elektrocheskiye i oksidnyye pokrytiya, korroziya metallov i issledovaniya v oblasti elektrocheskiye i oksidnyye metallic and oxide coatings, corrosion of metals, and studies in electrochemistry). Moscow, Nauka, 1965, 194-197	
and allow allow electrodeposition	
TOPIC TAGS: silver alloy, palladium alloy, electrodeposition	
ABSTRACT: The conditions of electrodeposition of Ag-Pd alloys from an electrolyte having LiCl as its main component and some physicochemical properties of these alloys were ing LiCl and HCl concentrations were found to have a considerable influence on studied. LiCl and HCl concentrations were found to have a considerable influence on the quality of the deposits. The strongest influence on the composition of the alloys the quality of the deposits. The strongest influence on the composition of the alloys was exerted by the Ag:Pd ratio in the electrolyte. A study of the anodic process, was exerted by the Ag:Pd ratio in the electrolyte. A study of the electrolysis/of showed that carbon and graphite electrodes were best suited for the electrolysis/of liCl solutions. A study of the cathodic process showed that the net polarization LiCl solutions. A study of the cathodic process showed that the net polarization curve of deposition of the cathodic process showed that the net polarization curve of deposition of the puro components. X-ray analysis and minet polarization curves of deposition of the puro components. X-ray analysis and minet polarization curves of deposition of the puro components. X-ray analysis and minet polarization curves of deposition of the puro components. X-ray analysis and minet polarization curves of deposition of the puro components. X-ray analysis and minet polarization curves of deposition of the puro components. X-ray analysis and minet polarization curves of deposition of the puro components. X-ray analysis and minet polarization curves of deposition of the puro components. X-ray analysis and minet polarization curves of deposition of the puro components. X-ray analysis and minet polarization curves of deposition of the puro components. X-ray analysis and minet polarization curves of deposition of the puro components.	,
Card 1/2	Ì
	÷
	-

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000412810



ACC NR. AP6035750

SCURCE CODE: UR/0413/66/000/019/0120/0120

INVENTORS: Fedot'yev, N. P.; Vyacheslavov, P. M.; Burkat, G. K.; Volkova, N. V.

ORG: none

TITLE: An electrochemical method for obtaining a binary silver alloy. Class 48, No. 186825 / announced by Leningrad Order of the Workers Red Banner Technological Institute imeni Lensovet (Leningradskiy ordena Trudovogo Krasnogo Znameni tekhnologicheskiy institut)

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 19, 1966, 120

TOPIC TAGS: silver, alloy, silver containing alloy, binary alloy, cobalt compound, potassium compound

ABSTRACT: This Author Certificate presents an electrochemical method for obtaining a binary silver alloy from an electrolyte containing silver cyanide complex. To improve the resistance to abrasion, hardness and the resistance to corrosion of the precipitated coatings, the process is conducted at a temperature of 40-45C and at a current density of 0.1--0.5 a/dm², while the electrolyte is being mixed. The composition of the electrolyte should include pyrophosphates of cobalt and of potassium in the following proportions of the components (in g/liter): metallic silver -- 0.1--0.4; metallic cobalt -- 2.0--3.2; free potassium pyrophosphate -- SUB_CODE: 11, 07/ SUBM DATE: 05May65

[Signaling, interlecking control, block systems. Vol.1. Independently-acting signal, staff, semiantomatic block and mechanical interlecking systems] Signalizateita, tsentralizateita, blokirovka, T.1.Nusavisimo-deistvuiushchaia signalizateita. Zheslovaia sistema. Poluavicmaticheskaia blokirovka i mekhanloheskaia tsentralizateita. Moskva, Gos.trans.shel-dor. (MIRA 6:11) izd-vo, 1952. 502 p. (Railroads--Signaling)

FEDOT: YEV. Paval Wiktorovich; RAKITO, E.I., redaktor; KHITROV, P.A., tekhnicheskiy redaktor

[Signaling, central control, and block systems and their maintenance]
Ustroistva signalizatsii, tsentralizatsii i blokirovki i ikh soderzhanie. Moskva, Gos.transp.zhel-dor. izd-vo, 1956. 430 p. (MIRA 10:1)
(Railroads--Signaling)

Tinstallation of a new type of locks on interlocking switches and apparatus of the Natalevich system. Avtom. telem. i sviaz' 2 no.9:13 S '58. (NIRA 11:10)

(Railroads—Switches)

FEDOT'IEV, P.V., inzh.

Electric interlocking nechanism. Avtom., telem. i sviaz' 3 no.2:
(MIRA 12:4)
14-15 F '59.
(Railroads-Interlocking systems)

FEDOT'TEY, P.V.; MARKEVICH, A.T.

New semiautematic block system. Avtom.telem. i svias! 3 no.3:17-21
(MIRA 12:5)

Nr '59.

(Railroads--Signaling--Block system)

- FEDOT YEV, P.V.

Trackside stand for the control of exit semaphores. Avton.telem. i svias' 3 no.10:12-13 0 '59. (HIRA 13:2)

1. Starshiy inshener tekhnicheskogo otdela Glavnogo upravleniya signalizatsii i svyami Ministerstva putey soobshcheniya.

(Railroads—Signaling)

PHASE I BOOK EXPLOITATION

BOV/4254

Fedot'yev, Pavel Viktorovich

Elektromekhanicheskiye ustroystva avtomatiki i telemekhaniki (Electromechanical Devices in Automation and Telemechanics) Moscow, Transzheldorizdat, 1960. 351 p. Errata slip inserted. 8,000 copies printed.

Tech. Ed.: P.A. Khitrov; Ed.: E.I. Rakito.

FURPOSE: This book has been approved by the Ministry of Railroads of the USSR as a textbook for tekhnikums specializing in railroad transportation.

COVERAGE: The book describes the design, assembly and current maintenance of electromechanical train signalling systems now used in the USSR. Controlled manual blocks, mechanical interlockings, staff and control systems are discussed. No personalities are mentioned. There are no references.

Card 1/9

ARLE OF CONTENTS:	
ntroduction	
	3
h. I. Signalling	•
1. Fixed signals and their classification	6
2. Signal indications of fixed signals	6 8
3. Fixed signal locations	13
4. Light filters and optical systems for signalling devices	15
5. Light sources for signalling devices	<u>18</u>
h. II. Semaphores	
1. Single-arm semaphore	21
2. Double-arm semaphore	<u> </u>
3. Triple-arm semaphore	35
4. Installation of semaphores	35
5. Electrical illumination of semaphores	37
6. Electric slots	40
7. Semaphore repeaters	45
ard 2/9	
-1,	

Suggestions of efficiency experts. Avtom.telem. i sviag: 4 no.11:
42 N '60.
(Railroads-Signaling-Interlocking systems)

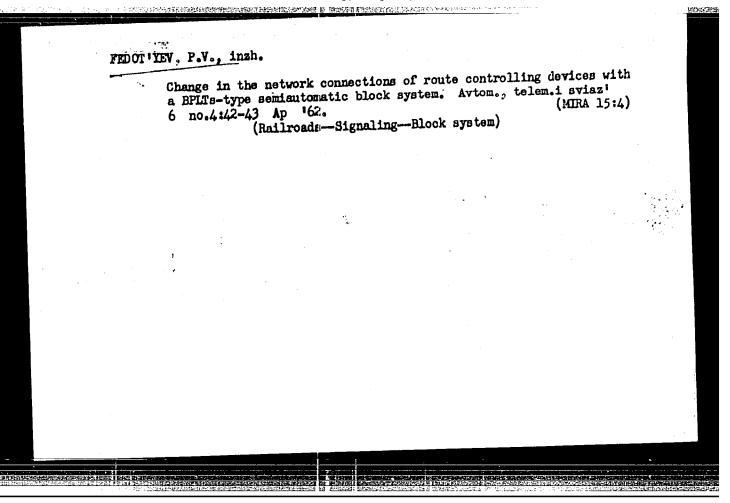
PEDOT YEV, P.V., inab.

New relay-type semiautomatic block systems for tracksides and railroad stations. Avtom., telem.i sviaz' 6 no.1:37 Ja '62.

(Railroads—Signaling—Rlock system)

(Railroads—Signaling—Rlock system)

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000412810



GERMAN, M.I.; FEDOT'YEV, P.V., insh.

Improvement of semiautomatic block system apparatus with polarized line networks. Avtom., telem.i svias' 6 no.11:43 N '62.

(MIRA 15:11)

1. Veduschiy konstruktor savoda "Transsignal" (for German).

(Rai.lroads—Signaling—Block system)

Chief of the Tool Bureau (-1945-)

*Variation in the Hardness of Grinding Wheels and the Manufacture of New Grinding Wheels at the Krasnyy proletariy Plant, Stanki I Instrument, 16, No. 3, 1945

*BB-52059019

YUR'YEV, N.M.; VOSKRESENSKIY, B.V., inzhener, retsensent; PRDOFIVEV V.P., inzhener, retsensent; EOGISKIY, M.N., inzhener, redaktor; MATVEYEVA, Ye.N., tekhnicheskiy redaktor

[Work organisation of a machine shop in a machine building plant]

Planirovanie mekhanicheskogo tsekha mashinostroitel'nogo savoda pri massovom i krupnoseriinom proisvodatve. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 183 p. (MIRA 8:3)

(Machine shops) (Machinery industry)

S/118/61/000/004/002/005 A161/A127

AUTHOR:

Fedot'yev, V.P., Engineer

TITLE:

Card 1/2

Overall mechanization of the machine tool production at the "Kras-

nyy proletariy" Plant

15

FERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 4, 1961, 12 - 16

TEXT: The plant has started the fully mechanized production of a range of 1%62 (1%62) lathes. The mechanization of four plant shops - forging, mechanical, assembling and painting shops, has been carried out during 1958-1960. It is mentioned that the organization of flow-line production is not new for the "Krasnyy proletariy" Plant, it began 15 years ago with AMN-20M (DIP-20M) lathe. The article describes the equipment and work organization in the four shops. There is a total of 60 flow-lines including four automatic and semiautomatic, 1,200 m conveyers, 2,000 m roller tables and many other handling devices. The conveyers are connecting heating furnaces with stamping presses; 8 of the gas-fired furnaces are fitted with automatic MMP("MIR", abbreviation for "multichannel impulse regulation") temperature regulators; four automatic saws cut billets in the billeting section. One half of all 1%62 lathes parts is produced by advanced methods -

S/118/61/000/004/002/005 A161/A127

Overall mechanization ...

pressing from plastics, precision casting with investment molds and die casting, and drop forging. The mechanical shop has 11 piece-production and 30 gang-production lines in which parts are moving on roller tables from machine to machine, small and medium size-parts in boxes. One line of nine machine tools shown in a photo and producing 10 different gears is mentioned as the most efficient one. It has been designed by ENIMS and is the first of its kind in the USSR. There are more than 150 special and unit-head machines, which makes 31% of the total. Socalled "hydro-amplifiers" are raising 4-5 atm pressure in the air mains to 125 atm in the clamping fixtures. Gang-fixtures are used on machine tools and permit the working of up to 7 different parts on one machine. Another ENIMS line of 11 machines works 13 different spline shafts. Over 400 different measuring inspection devices include induction pickups. The article includes a description and a photo of the main assembly conveyer, underfloor and floor conveyers, a suspension conveyer that is carrying parts from the store to the assembly shop and unleading automatically at three stations. The tare is directed by operation catches of different length, i.e. catches of certain length are stopping at certain places. Conveyers are used in the painting shop. The result of the mechanization is a 37% output increase and a 30% costs reduction. There are 5 figures.

Card 2/2

LUNEVSKIY, I.I.; GULYAYEV, G.I., inzh., retsensent; FEDOT'YEV, V.P., inzh., retsenzent; POPOV, S.G., inzh., red.; BOBROVA, Ye.N., tekhn. red.

[How to organize multiple machining at a machinery plant] Kak organisovat' mnogostancichnuiu rabotu na mashinostroitel'nom zavode. Moskva, Mashgiz, 191. 73 p. (Machinery findustry-Management) (MIRA 16:5)

FEDOT'YEV, V. V.

Fedot'yev, V. V. — "Method of Formulating the Concept of "Manufacture" in the Study of the History of the Middle Ages in the Seventh Grade." Min Education RSFSR, Moscow Oblast Pedagogical Inst, Moscow, 1955 (Dissertation for the Degree of Candidate of Pedagogical Sciences)

SO: Knishnaya Letopis', Nol 24, Moscow, Jun 55, pp 91-104

TUMOVA, B.; FRDOVA, D.; PLESNIK, J.

Incidence and spread of a new variant of the type B influenza virus among the population of Czechoslovakia. I.I. Incidence of type B₁ strains in 1960 and the epidemic of 1961. J. hyg, epidem. 7 no.2: 151-164 '63.

1. Czechoslovak Influenza Centre, Institute of Epidemiology and Microbiology, Prague; Regional Station of Hygiene and Epidemiology, Ostrava.

(INFLUENZA VIRUSES)

(ANTIBODES)

(EPIDEMIOLOGY)

FEDOVA, D.; ZELENKOVA, L.

The use of the fluorescent antibody method for the rapid identification of the A2 influenza virus. I. The identification of influenza virus in the epithelial cell sediment of allantoic or amniotic fluid of infected chick embryos. J. hyg. epidem. (Praha) 9 no.2:127-134 *65.

The use of the fluorescent antibody method for the rapid identification of the A2 influenza virus. II. The identification of influenza virus in masal smears by the fluorescent antibody technique. Ibid. 1135-146

1. Institute of Epidemiology and Microbiology, Prague.

ODINETS, B.Yu.; FEDOT' YEV, Yu.P.; SEREBRYANYY, G.M.; SMIRNOV, B.K., otv. red.; TEMKINA, Ye.L., tekhn.red.

[Standards and estimates for building and assembly work] Edinye normy i rastsenki na stroitel'nye, montazhnye i remontno-stroitel'nye raboty 1960 g. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam. No.21. [Making units and details of pipelines and preparing reinforcements] Izgotovlenie uzlov i detalei truboprovodov i podgotovka armatury. 1960. 111 p. (MIRA 13:8)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Normativno-issledovatel'skaya stantsiya tresta Yuzhsantekhmontazh (for Odinets). 3. Normativno-issledovatel'skaya stantsiya tresta Uralsantekhmontazh (for Fedot'yev). 4. TSentral'noye normativno-issledovatel'skoye byuro Ministerstva stroitel'stva RSFSR (for Serebryanyy).

(Pipelines)

RASKA,K.; TUMOVA,B.; HELCL,J.; EEDOVA,D.; PIRKOVA,Z.; PECENKA,J.; SKVRNOVA,K.

Annual report of the Czechoslovak Influenza Centre. J.hyg. epidem. 7 no.3:261-271 163.

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412810(

CZECHOSŁOVACIA

TULIOVA, B; FEDOVA, D; FLESHIII, J; SUCHAMEK, M; EUBVIK, J; BOSKOVA, D; VOLENIKOVA, J; PROCHAZNOVA, V.

Prague, Trakticky lekar, No 16, 1963, p 627

"Occurence and Spread of Variants of the Flu Virus Type B in the Czechoslovak Population between 1959-1961."

(8)

TUMOVA, B.; FEDOVA, D.; BOSKOVA, D.; VOLENIKOVA, J.; PROCHAZKOVA, V.; LUDVIK, J.

The incidence and spread of a new variant of type B influenza virus in the population of Czechoslovakia in 1959--1961. II. Properties of the strains isolated. Acta virol. 7 no. 2:156-175 Mr '63.

1. Czechoslovak Influenza Centre, Institute of Epidemiology and Microbiology, Prague, and Laboratory of Electron Microscopy and Experimental Morphology, Czechoslovak Academy of Sciences, Prague. (VIRUS CULTIVATION) (GUINEA PIGS) (INFULENZA VIRUSES) (EPIDEMIOLOGY) (MICE) (SHEEP) (INFLUENZA) (CATTLE) (TISSUE CULTURE) (RABBITS) (CARNIVORA) (HORSES) (COMPLEMENT FIXATION) (HEMAGGL! TINATION INHIBITION TESTS) (NEUTRALIZATION (COMPLEMENT FIXATION TESTS) (ANTIGENS) TESTS)

FEDOVA, D. DRASNAR, M.; SVEJDA, J.; PIRKOVA, Z.; SODJA, J.; SYRUCEK, L.

Epidemic of influenza in Czechoslovakia in February-April 1964. J. hyg. epidem. (Praha) 9 no.1:95-110 165

1. Institute of Epidemiology and Microbiology, Prague.

FEDRA, E.

Graphic calculation of transportation and tariff norms for forest railroads. p. 242. REVISTA PADURILOR. (Asociatia Stiintifica a Inginerilor si Technicienilor din Rominia si al Ministerului Agriculturii si Silviculturii) Bucuresti. Vol. 71, no. 4, Apr. 1956.

So. East European Accessions List Vol. 5, No. 9 September, 1956

FEDREJEK, Wladyslaw, mgr inz.

Simplified method of designing simple wood parts axially compressed with uniform and complex cross section. Inz i bud 21 no.5:Suppl.:maly por konstr 5 no.3:18-20 My '64.

1. Office of Studies and Typical Design of Industrial Construction, Warsaw.

SIDOCHENKO, T.V.; FEDRULOVA, M.H.

Results of verifying T.A.Duletova's rules for forecasting upperlevel cyclones and determining the dates of natural synoptic periods. Trudy TSIP no.87:57-61 '59. (MIRA 12:8) (Cyclones)

Device for controlling kinematic precision of gears. Stan.i instr. 33 no.5:29-30 My '62. (MIRA 15:5) (Gearing—Testing)

FEDUKOVICH, N.N., dotsent

Utilization of hydropiperine, a new preparation from Polygomum hydropiper, in preventing obstetrical and gynecological hemorrhages. Sov. med. 24 no. 7:123-126 Jl '60. (MIRA 13:8)

1. Iz kliniki akusherstva i ginekologii lechebnogo fakuliteta (zav. - prof. A.M. Foy) i kafedry farmakologii (zav. - dotsent B.N. Volynskiy) Saratovskogo meditsinskogo instituta (dir. - dotsent B.A. Nikitin).

(HEMOSTATICS) (POLYGONUM) (HEMORRHAGE, UTERINE)

PEDUKOVICH, N.N., kand.med.nauk

Data from a cytological investigation of vaginal smears in uterine fibromyoma before and after therapy [with summary in English]. Akush. i gin. 35 no.1:81-84 Ja-F 159. (MIRA 12:2)

1. Is akushersko-ginekologicheskoy kliniki (sav. - prof A.M. Foy) lechebnogo fakuliteta Saratovskogo meditsinskogo instituta. (LMIOMYOMA, surgery.

uterus, precep. & postop. vaginal smear cytol. (Rus)) (UTERUS NHOPLASMS, surgery,

leiomyoma, preop. & postop. vaginal smear cytol. (Rus)) (VAGINAL SMEARS,

in uterine myoma, postop. changes. (Rus))

Nechiporenko, P. K. and Fedukovich, V. S. (USSR). (Gravitational Varioneter).
Russian Patent 99958, issued July 31,1933.

Applies to apparatus for damping oscillations of beam. Beam is made in form of a hollow cylinder suspended to a thread passing along axis of beam; beam is provided with a metallic ring placed in field of action of magnets or electromagnets.

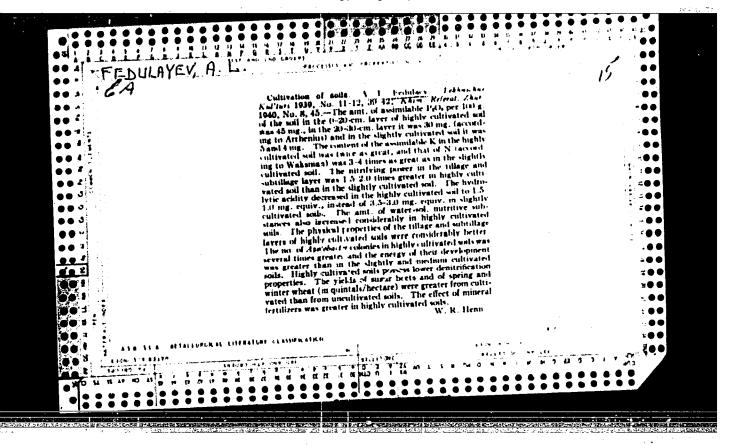
Claim allowed - 1.

BLAZHEVSKIY, Ye.V., dvazhdy Geroy Sotsialisticheskogo Truda; VOVCHENKO, I.V., kand. sel'khoz. nauk, zasł. agronom Ukr.SSR; VOROB'YEV, N.Ye., st. nauchn. sotr.; GESHELE, E.E., doktor biol. nauk, prof.; ZUBRITSKIY, A.A., agronom; KISEL'GOF, Z.S., inzh., zasl. mekhanisator sel'skogo khoz. Ukr.SSR; KLYUCHKO, P.F., kand. sel'khoz. nauk; KORCHAGIN, A.Ye.; LEBEDEV, Ye.M., st. nauchn. sotr.; NASYPAYKO, V.M., kand. sel'khoz.nauk; PIKUS, G.P., kand. sel'khoz.nauk; REKACH, V.N., doktor sel'khoz. nauk, prof.; SPIVAK, I.I., sootekhnik; TEMCHENKO, L.V., kand. sel'khoz. nauk; FEDULAYEV, A.A., agronom; YAKOVENKO, V.A., kand. tekhn.nauk; KITAIEV / I.A., kand. sel'khoz. nauk, red.; MUSIYKO, A.S., akademik, red.; VINNITSKIY, S.P., red.; MOLCHANOVA, T.N., tekhn. red.

[For high corn yields] Za bol'shuiu kukuruzu. [By] E.V. Blazhevskii i dr. Odessa, Odesskoe knizhnoe izd-vo, 1962. 173 p. (MIRA 16:7)

1. Zven'yevoy kolkhoza im. Gor'kogo Kotovskogo rayona na Odesshchine (for Blashevskiy). 2. Glavnyy agronom sovkhoza "Bessarabskiy" (for Korchagin). 3. Ukrainskaya akademiya sel'skokhozyaystvennykh nauk (for Musiyko).

(Ukraine--Corn (Maize))



BAZHURA, Panteley Semenovich; SERGIYENKO, Ivan Terent'yevich [Serhiienko, I.T.], agronom, Geroy Sotsialisticheskogo Truda; ZYUZ'KO, Yevgeniy Petrovich; FEDULAYEV, Andrey Luk'yanovich; VINNITSKIY, S.[Vinnyts'kyi,S.], red.; MOICHANOVA, T., tekhn. red.

[Additional crops] Dodatkovi vrozhai. Odesa, Odes'ke knyzhkove vyd-vo, 1959. 22 p. (MIRA 15:7)

1. Predsedatel' kolkhoza "Bat'kivshchyna" Kotovskogo rayona (for Bazhura). 2. Glavnyy agronom kolkhoza "Ukraina" Odesakogo rayona (for Zyuz'ko). 3. Glavnyy inspektor po rasteniyevodstvu Odesskogo chlastnogo upravleniya sel'skogo khokhozyaystva (for Fedulayev).

(Odessa Province-Forage plants)

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412810

